

5 A method of optimizing malignancy therapy includes surgical removal or
reduction of the body burden of malignant cells and retention of some
of those cells for subsequent use in immunotherapy. Radiotherapy may
10 be employed at a radiation dosage below the threshold for normal tissue
necrosis but on a correspondingly faster schedule than is the present
United States standard to provide preservation of normal tissue
structure. Normal tissue tolerable limits for one fraction are in the range
of 10 - 13 Gy or Gy-Eq. The removed tumor cells are altered genetically
to enhance their immunogenicity and also altered ex vivo by radiation or
by any other means to render them incapable of sustained clonogenic
propagation and then are re-injected using multiple sequenced injections.